

FIGURE 1

Eciss	ATGCAGGATAATAAGATGAAAAAAATGTTATTTCTGCCGCTCTGGCAATGCTTATTACA	60
102iss	ATGCAGGATAATAAGATGAAAAAAATGTTATTTCTGCCGCTCTGGCAATGCTTATTACA	60
lambor	ATCGGAAATAACACCATGAAAAAAATGCTACTCGCTACTCGCTGCCCTGCTTATTACA	60
Eciss	GGATGTGCTAACAAACGTTACTGTTGGAAACAAACCGACAGCAGTAACACCAAAGGAA	120
102iss	GGATGTGCTAACAAACGTTACTGTTGGAAACAAACCGACAGCAGTAACACCAAAGGAA	120
lambor	GGATGTGCTAACAGACGTTACTGTTCAAAACAAACCGGAGCAGTAGCACCAAAGGAA	120
Eciss	ACCATCACTCATCATTCTCGTTCCCCAATTGGAC-AGAGAAAATGTTGATGCAGCC	179
102iss	ACCATCACTCATCATTCTCGTTCTGGAAATTGGACAAGAGAAAATGTTGATGCAGCC	180
lambor	ACCATCACCCATCATTCTCGTTCTGGAAATTGGCAGAAGAAAATGTCGATGCAGCC	180
Eciss	AAAATTGTTGGCGGTGCAGAAAATGTTGTTAAAACAGAAAATCAGCAAACATTGTAAA	239
102iss	AAAATTG-TGGCGGTGCAGAAAATGTTGTTAAAACAGAAAATCAGCAAACATTGTAAA	239
lambor	AAAATTG-TGGCGGCGCAGAAAATGTTGTTAAAACAGAAAACCCAGCAAACATTGTAAA	239
Eciss	TGCATTGCCCGGTTTATCACTTTGGCATCTATACTCCGCGGGAAACCGGTATATTG	299
102iss	TGGATTGCTCGGTTTATCACTTTGGCATCTATACTCCGCTGGAAGCCCGGTATATTG	299
lambor	TGGATTGCTCGGTTTATTACTTTAGGCATTATACTCCGCTGGAAGCGCGTGTATATTG	299
Eciss	CTCACAAATAG	309
102iss	CTCACAAATAG	309
lambor	CTCACAAATAA	309

FIGURE 2

Iss_Ec	MQDNKMKKMLFSAALAMLITGCAQQTFTVGNKPTAVTPKETITHFFVSPIGQRKLLMQP	60
102Iss	MQDNKMKKMLFSAALAMLITGCAQQTFTVGNKPTAVTPKETITHFFVSGIGQEKTVDA	60
lamBor	MKKMLLATALALLITGCAQQTFTVQNKPAAVPKETITHFFVSGIGQKKTVDA	55
Iss_Ec	KFVCGAENVVKTETQQTFVNALPGFITFGIYTPRETRVYCSQ	102
102Iss	KICCGAENVVKTETQQTFVNGLLGFITFGIYTPLEARVYCSQ	102
lamBor	KICCGAENVVKTETQQTFVNGLGFITLGIYTPLEARVYCSQ	97

FIGURE 3

L E V L F Q G P L G S M Q D N  
CTG GAA GTT CTG TTC CAG GGG CCC CTG GGA TCC ATG CAG GAT AAT  
PreScission Protease BamHI iss fusion start

K M K K M L F S A A L A M L I  
AAG ATG AAA AAA ATG TTA TTT TCT GCC GCT CTG GCA ATG CTT ATT

T G C A Q Q T F T V G N K P T  
ACA GGA TGT GCT CAA CAA ACG TTT ACT GTT GGA AAC AAA CCG ACA

A V T P K E T I T H H F F V S  
GCA GTA ACA CCA AAG GAA ACC ATC ACT CAT TTC TCG GTT TCG

G I G Q E K T V D A A K I C G  
GGA ATT GGA CAA GAG AAA ACT GTT GAT GCA GCC AAA ATT TGT GGC

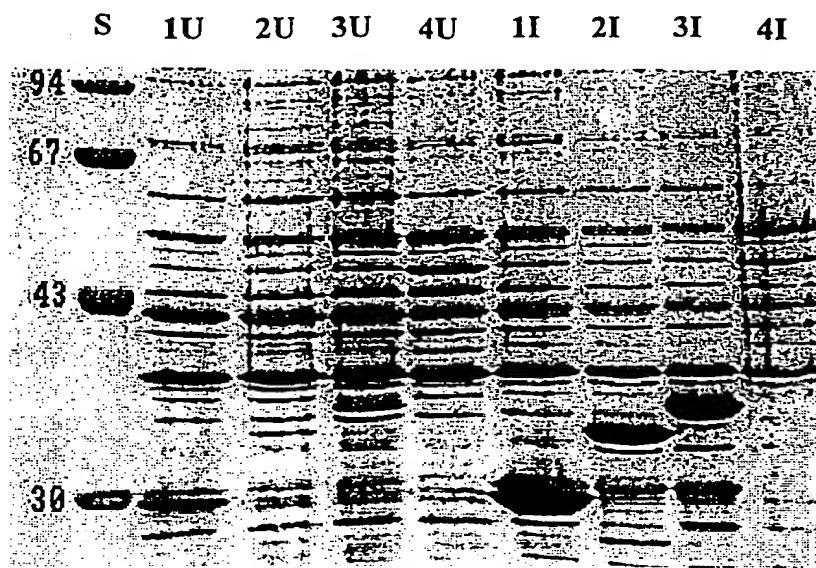
G A E N V V K T E T Q Q T F V  
GGT GCA GAA AAT GTT GTT AAA ACA GAA ACT CAG CAA ACA TTC GTA

N G L L G F I T F G I Y T P L  
AAT GGA TTG CTC GGT TTT ATC ACT TTT GGC ATC TAT ACT CCG CTG

E A R V Y C S Q \*  
GAA GCC CGG GTA TAT TGC TCA CAA TAG TTG CCC ATC GAT ATG GGG

AGC TCA TCT GCG AAT TCC  
EcoRI

FIGURE 4



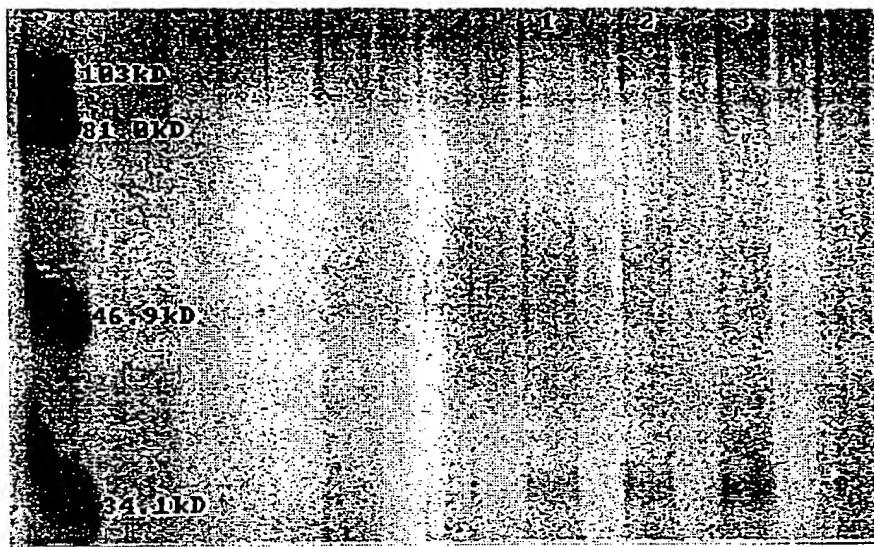
Title: NUCLEIC ACID ENCODING AN AVIAN *E. COLI* ISS POLYPEPTIDE AND METHODS OF

USE

Applicant(s): Lisa K. Nolan Serial No.: Unassigned Filed: Herewith

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FIGURE 5



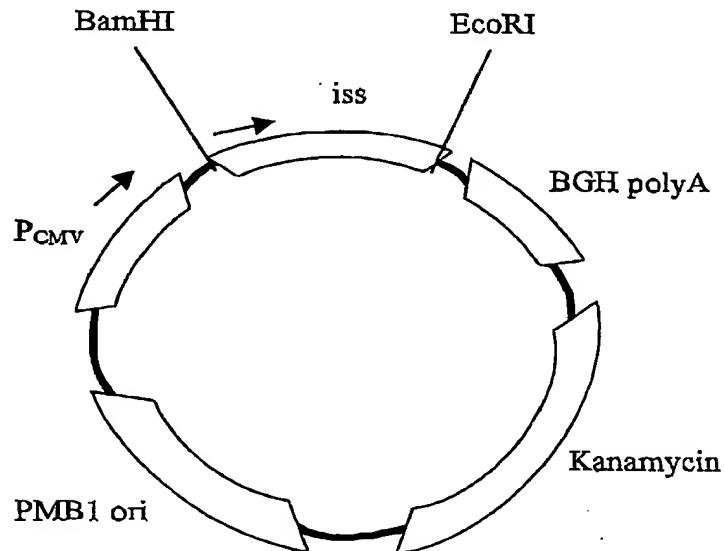


Fig 6